



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 2, 2022

Matthew T. Bucy  
Pesticide Product Registration Specialist  
Oregon Department of Agriculture – Pesticides Program  
635 Capitol St., NE  
Salem, OR 97301-2532

**Subject:** FIFRA 24(c) Registration – SLN Amendment Acknowledgment Letter  
**SLN Registration Number:** OR040010  
**EPA Decision Number:** 581514  
**SLN Expiration Date:** 12/31/2026  
**Parent EPA Reg. No.:** 100-816  
**Product Name:** Dual Magnum Herbicide  
**Active Ingredient:** S-Metolachlor

Dear Mr. Bucy:

This letter acknowledges receipt of the amendment to the above-listed Special Local Need (SLN) registration pursuant to Section 24(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. The SLN registration permits use of Dual Magnum Herbicide (containing s-metolachlor) on radish (including daikon), spinach, garden beets, and Swiss chard, all grown for seed, to control weeds. These are non-food/feed uses and the label contains language prohibiting diversion of any parts of the treated crops for human or animal consumption. There remains a need for this product to control problematic weeds in these crops and thus there is a continued need for this SLN registration. This amendment extends the expiration date to December 31, 2026 and incorporates revisions to the label based upon EPA's Registration Review for this chemical.

The Agency has completed a review of this amended use and acknowledges the State's amended SLN registration. Please inform the registrant that we have placed a copy of the SLN label in our files. If you have any questions, please contact Emergency Response Team member Andrea Conrath [(202) 566-2568; [conrath.andrea@epa.gov](mailto:conrath.andrea@epa.gov)].

Sincerely,

A handwritten signature in blue ink, reading "Ruthanne Loudon", is positioned below the "Sincerely," text.

Ruthanne Loudon, Acting Senior Regulatory Specialist  
Emergency Response Team  
Minor Use and Emergency Response Branch  
Registration Division / Office of Pesticide Programs

cc: *Chad Schulze, USEPA Region 10*  
*Derrick Terada, USEPA Region 10 Tribal Coordinator*



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## Section 24(c) Special Local Need Label

S-METOLACHLOR	GROUP	15	HERBICIDE
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FOR DISTRIBUTION AND USE ONLY WITHIN THE STATE OF OREGON

### Dual Magnum® Herbicide

For Control of Weeds in Radish Grown for Seed (Including Daikon), Spinach Grown for Seed,  
Garden Beets Grown for Seed and Swiss Chard Grown for Seed

EPA Reg. No. 100-816  
EPA SLN No. OR-040010

This label for Dual Magnum Herbicide is valid until December 31, 2026 or until otherwise amended,  
withdrawn, cancelled, or suspended.

**Active Ingredient:**

S-metolachlor (CAS No. 87392-12-9) ..... 83.7%

**Other Ingredients:** ..... 16.3%

**Total:** ..... 100.0%

Dual Magnum is formulated as an Emulsifiable Concentrate (EC) and contains the equivalent of 83.7% or  
7.62 lb of active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**SYNGENTA'S SPECIAL CONDITIONS, RISKS OF USE AND DISCLAIMER FOR USE OF DUAL  
MAGNUM HERBICIDE ON CROPS ON THIS 24(c) LABEL**

**IMPORTANT- READ BEFORE USE**

**THESE CONDITIONS RISKS OF USE AND DISCLAIMER ARE REQUIRED BY SYNGENTA CROP  
PROTECTION LLC AND NOT SPECIFIED BY U.S. EPA OR THE OF STATE OF OREGON**

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SYNGENTA CROP PROTECTION, LLC  
INTENDS THAT THE PRODUCT THAT IS THE SUBJECT OF THIS SECTION 24(c) LABEL BE  
PURCHASED ONLY BY END USERS WHO AGREE BY ELECTRONIC SIGNATURE ON SYNGENTA  
CROP PROTECTION'S INTERNET SITE TO THE TERMS AND CONDITIONS REQUIRED BY  
SYNGENTA CROP PROTECTION, LLC INCLUDING A WAIVER AND RELEASE FROM ALL LIABILITY  
AND INDEMNIFICATION BY THE USER AND/OR GROWER OF SYNGENTA AND OTHERS FOR  
FAILURE TO PERFORM AND FOR CROP INJURY, CROP YIELD REDUCTION, AND/OR CROP LOSS  
FROM USE OF DUAL MAGNUM HERBICIDE ON CROPS ON THIS 24(c) LABEL. IF SUCH TERMS  
AND CONDITIONS ARE UNACCEPTABLE, RETURN THE DUAL MAGNUM HERBICIDE AT ONCE  
UNOPENED OR USE THE DUAL MAGNUM HERBICIDE FOR A DIFFERENT APPROVED USE IN  
ACCORDANCE WITH THE LABEL AFFIXED TO THE PRODUCT CONTAINER.

**USE OF DUAL MAGNUM HERBICIDE (THE "PRODUCT") ON CROPS LISTED (THE "CROP") FOR**

**THIS SPECIAL LOCAL NEED MAY RESULT IN CROP INJURY, CROP YIELD REDUCTION AND/OR CROP LOSS AS FURTHER DISCUSSED BELOW. READ AND UNDERSTAND THESE CONDITIONS AND RISKS OF USE FOR SPECIAL LOCAL NEED BEFORE USING THE PRODUCT ON THE CROP. SYNGENTA RECOMMENDS THAT THE USER TEST THIS PRODUCT TO DETERMINE ITS SUITABILITY FOR SUCH INTENDED USE.**

Syngenta Crop Protection, LLC makes the Product available for use in the manner described in this Section 24(c) Labeling on the basis that, in the sole opinion of the user, the benefits and utility derived from the use of the Product on the Crop outweigh the potential risk of Crop injury, Crop yield reduction or Crop loss.

The decision to use this Product in the manner described in this Section 24(c) Labeling must be made by each individual user on the basis of anticipated benefits versus (i) the potential risk of Crop injury, Crop yield reduction and Crop loss, (ii) the severity of the target pest infestation, (iii) the cost and availability of alternative pest controls and (iv) any other relevant factors. Syngenta recommends that the user test this Product to determine its suitability for such intended use.

**By purchasing the Product for use, or using the Product in the manner described in this Section 24(c) Labeling, you acknowledge and accept that, to the extent consistent with applicable law:**

- 1) you assume all risk of Crop injury, Crop yield reduction and Crop loss;
- 2) Syngenta Crop Protection, LLC do not make, and do not authorize any agent or representative to make, any representations or recommendations regarding the use of this Product on the Crop other than the statements on this Section 24(c) labeling;
- 3) Syngenta Crop Protection, LLC do not make, and do not authorize any agent or representative to make, any warranties, express or implied, with respect to the use of the Product on the Crop and disclaim all warranties, expressed or implied, including any implied warranty of merchantability;
- 4) Syngenta Crop Protection, LLC disclaim all liability for any damages, losses, expenses, claims or causes of actions arising out of or relating to Crop injury, Crop yield reduction and/or Crop loss;
- 5) these conditions and Risks of Use for Special Local Need supersede any contrary representations or recommendations by Syngenta Crop Protection, LLC or their respective agents or representatives, and any provisions in or on any Product literature or labeling including any provisions on the label affixed to the Product container.

**If these Conditions and Risks of Use for Special Local Need are not acceptable, the unopened Product may be returned to the seller for a refund or used for a different labeled use in accordance with the label affixed to the Product container.**

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.**

**Environmental Hazards:** Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

**Groundwater Advisory:** S-metolachlor is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

**Surface Water Advisory:** S-metolachlor has the potential to contaminate surface water through ground spray drift. Under some conditions, the active ingredient may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded

areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

#### **Mixing/Loading Precautions:**

Care must be taken when using this product to prevent back-siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates. Check-valves or antisiphoning devices must be used on all mixing and/or irrigation equipment.

- This product must not be mixed or loaded within 50 ft of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs.
- This product must not be mixed/loaded or used within 50 ft of all wells, including abandoned wells, drainage wells, and sink holes.
- Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad.
  - Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad.
  - Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained.
  - The pad shall be sloped to facilitate material removal.
  - An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad.
  - A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad.
- Containment capacities as described above shall be maintained at all times.

The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site

#### **DIRECTIONS FOR USE**

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This FIFRA Section 24(c) label and the main EPA-registered Dual Magnum Herbicide label must be in the possession of the user at the time of pesticide application.
- Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on this FIFRA Section 24(c) label and the main EPA-registered label.
- The risk of crop injury increases when adjuvants (e.g., non-ionic surfactants, crop oils, etc.), nitrogen sources (e.g., AMS, UAN), fertilizers or other pesticides are applied with Dual Magnum.
- **Chemigation:** For use under this SLN label do not apply this product through any type of irrigation
- **Rotational Crops:** DO NOT rotate to food or feed crops other than those listed on the main EPA-registered label.

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#### **RADISH GROWN FOR SEED (INCLUDING DAIKON)**

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##### **Application Directions – Prior to Seeding or Transplanting**

Apply a soil surface broadcast application with ground application equipment prior to seeding or transplanting. Use 1.0–1.33 pt (0.95–1.27 lb ai) per acre on coarse and medium soils in a minimum of 20 gallons of water per acre. Apply Dual Magnum to the soil and incorporate into the top 2 inches of soil before seeding or transplanting using a finishing disk, harrow, rolling cultivar, or similar implement capable of providing uniform 2 inch incorporation.

**Precautions:** Crop injury may result under unfavorable environmental conditions.

**Application Directions – Post Transplanting**

Apply a broadcast application with ground application equipment within 48 hours after transplanting the radish. Use 1.0–1.33 pt (0.95–1.27 lb ai) per acre on coarse and medium soils in a minimum of 20 gallons of water per acre. Dual Magnum will not control emerged weeds.

Weed control is optimized if approximately ½ inch of irrigation water is applied shortly (1-2 days) after Dual Magnum is applied to activate the herbicide.

**Precautions:** Crop injury may result under unfavorable environmental conditions.

**Restrictions:**

1. Do not exceed a total of 1.33 pt/A (1.27 lb ai/A) per year.
2. Do not make more than one application per crop per year.

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**SPINACH GROWN FOR SEED**

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**Application Method:** Apply Dual Magnum at a broadcast rate of 0.33-0.67 pt/A (0.31-0.64 lb ai/A) to the soil surface before the weeds or crop emerge (i.e., preemergence). Use lower rates on relatively coarse-textured and higher rates on fine-textured soils. A band application may also be used if the crop is not planted in a trench or depressed bed, making sure that the rate applied per crop-acre is adjusted for area actually treated (see main EPA-registered label for banded application rate calculations). Dual Magnum will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means. For irrigated spinach: Irrigate with sprinkler or by furrow irrigation within two days of Dual Magnum application. Do not incorporate.

**Precautions:** Applications of Dual Magnum may cause significant injury to spinach resulting in reduced yields.

**Restrictions:**

1. Do not apply more than 0.67 pt/A (0.64 lb ai/A) per year.
2. Do not make more than one application per crop per year.

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**GARDEN BEET GROWN FOR SEED**

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**Application Directions:** Make a single broadcast application of Dual Magnum at 0.67 pt/A (0.64 lb ai/A) to the soil surface after planting, but before the weeds or crop emerge (i.e., preemergence). Apply Dual Magnum in a minimum of 15 gallons of water per acre. If the crop is irrigated, use 0.5 inches of water shortly after planting to incorporate the herbicide. Excessive irrigation may increase the risk of crop injury. Do not mechanically incorporate Dual Magnum. Do not use Dual Magnum if the planting operation creates a furrow or trough over the seed-row into which rain or irrigation water will collect and thus concentrate the herbicide over the row.

**Restrictions:**

1. Do not apply more than 0.67 pt/A (0.64 lb ai/A) per year.
2. Do not make more than one application per crop per year.

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**SWISS CHARD GROWN FOR SEED**

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**Application Directions:** Make a single -broadcast application of Dual Magnum at 0.5–1.0 pt/A (0.48-0.95 lb ai/A) to the soil surface after planting, but before weeds or crop emerge (i.e., preemergence). Apply in a minimum of 15 gallons of water per acre. Use lower rates on relatively coarse-textured soils and higher rates on fine-textured soils. A band application may also be used, applying proportionally less spray mixture on the area actually treated. Do not use on coarse-textured soils with less than 1.5% organic matter. Do not use on soils with greater than 10% organic matter.

**Precautions:**

1. In general, the risk of crop injury is greater on lighter textured soils and with higher application rates.

**Restrictions:**

1. Do not apply more than 1.0 pt/A (0.95 lb ai/A) per year.
2. Do not make more than one application per crop per year.

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**SPECIAL CROP USE RESTRICTIONS**

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The pesticide applicator, the producer of the crop, and the seed conditioner must be aware that use of this product according to this labeling is deemed a nonfeed/non-food use by the Oregon Department of Agriculture, and is regulated by Oregon Administrative Rule (OAR) 603-057-0535, Pesticide Use On Crops Grown For Seed. If the applicator of this pesticide is not the producer, the applicator must provide a copy of this labeling to the producer of the crop. Producers of this crop who use this product, or cause the product to be used on a field they operate, must provide a copy of this pesticide label to the seed conditioner.

This pesticide does not have an established pesticide residue tolerance for this crop. Consequently, no portion of this seed crop may be used or distributed for food or feed for 1 year (365 days) after the last application of this product. This restriction pertains to, but is not limited to: green chop, forage, hay, pellets, meal, whole seed, cracked seed, straw, roots, bulbs, foliage or seed screenings, and to the grazing of the crop field, stubble or regrowth. All seed screenings shall be disposed of in such a manner that the screenings cannot be distributed or used for food or feed purposes, as indicated in OAR 603-057-0535. Additional regulations concerning seed screenings are stated in OAR 603-057-0535.

Any seed from a field treated with this pesticide product shall bear specific and conspicuous container labeling, or if shipped in bulk, on the shipment invoice or bill of lading. The labeling shall contain the following statement:

"This seed was produced using one or more products for which the United States Environmental Protection Agency has not established pesticide residue tolerances. This seed, in whole, as sprouts, or in any form, may not be used for human consumption or animal feed. Failure to comply with this condition may violate requirements of the Federal Food and Drug Administration, the Oregon Department of Agriculture and other regulatory agencies."

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24(c) Registrant:  
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Label Code: OR0816059FA1121